SANGEET MOY DAS

(+91) 93373 46006 | dassangeet768@gmail.com | https://www.linkedin.com/in/sangeetdas/

EDUCATION

SHIKSHA 'O' ANUSANDHAN UNIVERSITY *Odisha, India*

Bachelor of Engineering in Computer Science, CGPA: 8.77/10.00 *May 2014 - May 2018*

Relevant Courses: Data Structures & Algorithms, Data Mining, Information Retrieval, Database Management System, Computer Network

SKILLS

- **Functional:** Machine Learning, Time Series Modeling, Forecasting, Anomaly Detection
- **Languages:** Python, Java, R, SQL, Scala, Javascript
- **Others:** Docker, Gitlab CI/CD, Kubernetes, DVC

WORK EXPERIENCE

Mu Sigma Inc., Decision Scientist *June 2018 - Present*

Contributing towards research in the area of Case-based modeling and Real-time Anomaly detection at Mu Sigma Innovation and Development Lab. Developed an aptitude for Data-driven decision making by applying Math and Technology in solving fuzzy business problems pertaining to Financial Market, Customer Segmentation, and Fraud detection for the fortune 500 clientele.

Prototype Research *Spring' 2020*

- Working on a prototype to showcase a physical-virtual representation of a Toyota 22 RE engine with connected sensors to collect and analyze real-time data on vibrations, RPM and audio.
- Also working towards designing an architecture for seamless deployment of Mu Sigma's in-house I&D Lab prototypes around the world

High-Velocity Time Series *Fall' 2019*

- The team was tasked with building a Trading platform for Pair Trading in the US equity market, and I was tasked with research & implementation of a statistical model for building intraday strategy & write an API to seamlessly publish new models into the app middle-tier.

Intelligent Systems *Spring' 2019*

- Individual Contributor tasked with research & development of an R CRAN package named muHVT for visualization and analysis of multivariate data by constructing Hierarchical Voronoi Tessellations using vector quantization and overlay heatmap to find trend & anomaly detection.
- This required a vast amount of research in the field of Computational Geometry and quickly catching up with D3.js.
- Along the way, I also built an accompanying R shiny dashboard to use the above package and recreated the visualization in D3.js for interactivity in for two-dimensional and three-dimensional topographical surface views.

Foundation Bricks *Fall' 2018*

- This team was tasked with building and maintaining tools using R and R-shiny that would allow an analyst to run data exploration, analysis, and machine learning pipelines without having to write any code. My contribution to the group was the design and implementation of tools that would allow users to run a wide array of exploratory, regression and segmentation algorithms on their data.
- To execute this project, I had to learn the intricacies of setting up proper ML pipelines which included nuances about the train, test validation sets, feature selection, feature engineering and transformation, performance metrics, diagnostic visualizations, ensembling techniques, statistical tests, and the knowledge about properly using every algorithm available to the user
- Along the way, I also picked up the skills and practices used in the standard software development life cycle and working in a 5 member development team. This included weekly build releases and product support functions.

ACADEMIC EXPERIENCE

SHIKSHA 'O' ANUSANDHAN UNIVERSITY *Odisha, India*
Student Researcher *Oct. 2017 – May. 2018*

- I was tasked with building an automated offline desktop platform named SUMalyzer for SUM Hospital which would allow the Doctor & Academic Researcher there to analyze the vast amount of clinical(text) data that are being collected
- Later on, was leading a team of 5 developers to build another platform for visualizing breast cancer patient scans and find anomalous behavior which could be used by doctors to identify cancer point
- Started a blog post series named 101 for dummies like Me to explain AI/ML concepts

RELEVANT PROJECTS

Student Developer *Oct. 2017 – May. 2018*

- Being part of Google Developer Group, I developed an IoT solution prototype for "Digital India Campaign 2015" that would enable re-routing of traffic, based on heat sensor data collected close to real-time from different traffic cam & deployed on Raspberry Pi edge devices.
- Built two visualization tools for sorting & pathfinding algorithm as part of a Coding Bootcamp
- Use to work as a freelance android developer, designing & developing applications for small businesses.
- Part time competitive programmer in Java & Code Jam Round 1B qualifier

AWARDS & RECOGNITION

- Received Mu Sigma Spot Awards for, *"consistent dedication and complete ownership of the muHVT R CRAN package."*
- 5th place in Leaderboard for DEVLYMPICS co-organized by Google for developing a pathfinding algorithm visualization tool that would solve a maze and capture the prize
- Among the 10 people who were recognized as top performers in Google's Android Study Jam 2015 co-organized by Google